

WHAT IS CLAIMED IS:

1. A system comprising:
at least two discs that rotate about a central axis;
an actuator mechanism configured to position transducing heads; and
at least one filter disposed between two discs.
2. The system of claim 1, wherein the filter is mounted to a basedeck of the system.
3. The system of claim 2, wherein the filter includes a plurality of filters, each of the plurality of filters independently mounted to the basedeck.
4. The system of claim 1, wherein the filter further comprises a plurality of filters that form a filter assembly having a connecting piece coupled to the plurality of filters.
5. The system of claim 4, wherein the connecting piece is attached to the basedeck.
6. The system of claim 1, wherein the filter comprises at least one surface covered with a filter element.
7. The system of claim 6, wherein the filter element is an electrically charged layer.
8. The system of claim 6, wherein the filter element is a filter media covered by a layer of scrim material.

9. The system of claim 1, wherein the filter comprises a member having at least one opening defined therein with a filter element positioned in the at least one opening.
10. The system of claim 9, wherein the filter element is an electrically charged layer.
11. The system of claim 9, wherein the filter element is a filter media covered by a scrim layer.
12. The system of claim 1, wherein the filter further comprises at least one contour designed to direct airflow away from the central axis.
13. The system of claim 12, wherein the at least one contour is designed to direct airflow towards a recirculation filter.
14. The system of claim 1, wherein the filter further comprises at least one contour designed to laminarize airflow.
15. A method of removing particles from an airflow within a data storage system, the method comprising:
 - generating an airflow in a space between at least two discs; and
 - filtering the airflow with a filter disposed between the at least two discs.
16. The method of claim 15, wherein filtering the airflow further comprises passing airflow over a filter surface that is substantially parallel to the at least two discs.

17. The method of claim 15, wherein filtering the airflow further comprises passing airflow through a filter that is substantially perpendicular to the at least two discs.

18. The method of claim 17, wherein in filtering the airflow further comprises passing the airflow through a filter coupled to a filter casing.

19. The method of claim 15 and further comprising directing the airflow towards a recirculation filter with an air guide.

20. A system comprising:
at least two discs which rotate about a central axis thereby producing a corresponding airflow; and
filtering means for filtering the airflow between the two discs.

21. The system of claim 20, wherein the filtering means comprises a filter element on an exterior surface.

22. The system of claim 21, wherein the filter element comprises an electrically charged material.

23. The system of claim 20, wherein the filtering means comprises a plurality of filters interleaved with at least two discs.